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(54) MAIN MOTOR FOR VEHICLE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a low noise self-ventilated main motor for vehicle which can deal with high capacity while enhancing the efficiency of axial fan.

SOLUTION: The guide ring 5 of axial fan 4A, 4B is cut off by a specified length and brought close to a short-circuit ring 8 and the inside diameter of guide ring 5 is set substantially equal to that of the short-circuit ring 8 thus suppressing the level difference. Consequently, vortex is eliminated, at the intake port and exhaust port of axial fan 4A, 4B and the efficiency thereof is enhanced. When wind holes 9 are made through the rotor core 1 at the positions corresponding to the blades

6 of axial fan 4A, 4B, the cooling air flow is made uniform and the noise is reduced.

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